Amendments to the Claims:

Please add claim 21.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1(Currently Amended).   A golf ball comprising:

a core;

a cover disposed on the core, the cover composed of a material selected from the group consisting of ionomers, polyurethane and blends thereof, the cover having a surface; and,

a primer coat disposed on the surface of the cover, the primer coat comprising a leuco dye system, the leuco dye system is capable of indicating whether the golf ball is above or below a predetermined temperature, the leuco dye system comprising a spirolactone component , a color developer component, a polar solvent component and a salt component.

2-4(Canceled).

5(Original).   The golf ball of claim1, wherein the cover comprises at least one inner cover layer and at least one outer cover layer.

6(Original).   The golf ball of claim 1, further comprising a temperature indicating mark printed on the cover.

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7(Original).   The golf ball of claim 1, wherein the core comprises at least an inner core

and a core layer surrounding the inner core.

8-20(Canceled).

21 (New).   A golf ball comprising:

> a core;

> a cover disposed on the core, the cover composed of a material selected from the

group consisting of ionomers, polyurethane and blends thereof, the cover having a

surface; and,

> a coating layer disposed on the surface of the cover, the coating layer comprising

a leuco dye system, the leuco dye system capable of indicating whether the golf ball is

above or below a predetermined temperature, the leuco dye system comprising

>> a spirolactone component selected from the group consisting of fluorans,
>> crystal violet lactone, spiropyrans and fulgides,

>> a color developer component selected from the group consisting of
>> bisphenol A, 1,2,3 triazoles, octyl phydroxybenzoate and 4-hydroxycoumarin
>> derivatives,

>> a polar solvent component selected from the group consisting of lauryl
>> alcohol, cetyl alcohol and butyl stearate ,and

>> a salt component.